Data Sheet: C8S.201.R9_2020

www.ntt.dk

C 8 S

FORCE transducers for Testing machines

Accessories

A

COMPRESSIONE / COMPRESSION

Loading head
Mounting plate must be used for ISO376 correct 3 time turning

Norma di riferiemnto ISO 376 *Reference standard*

Download on www.aep.it CE RoHS

Stabilità a lungo termine *Long term high stability*

SOLLECITAZIONI DINAMICHE *DYNAMIC STRESSES*

OPZIONE *OPTION* II 2 G Ex ib IIC T5 / II 2 D Ex ibD 21 T115°C
Certificate: TÜV 06 ATEX 553026 X

Interamente saldata al LASER *Completely LASER welded*

ACCREDIA
LAT N° 093
Calibration Centre
The products are NOT covered by accreditation

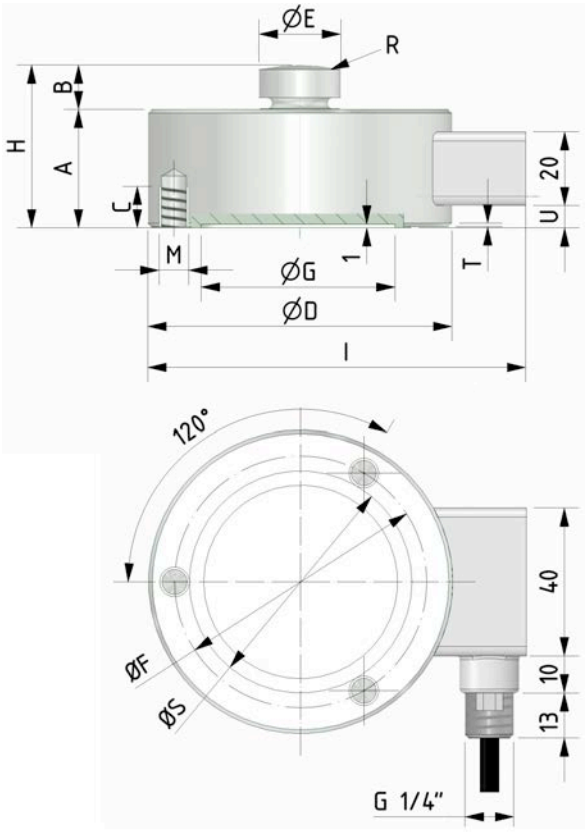
Certificato di Taratura ACCREDIA **A RICHIESTA**
ACCREDIA Calibration Certificate ON REQUEST

Dimensioni *Dimensions* [mm]

LOAD	A	B	C	ØD	ØE	ØF	ØG	H	I	M	n°M	R	ØS	T	U
from **1kN** to **100kN**	32	12	11	82	22	68	52.3	44	102	M8	3	50	60	0.3	6
200 – 300 kN	50	14	12	126	35	90	77.3	64	148	M8	3	160	100	0.5	15
500 – 750 – 1000 kN	60	20	20	165	60	130	92.3	80	188	M16	4	300	115	1	17
1500 – 2000 kN	80	30	20	200	80	152	107	110	223	M16	4	300	128	1	23

LOAD	*CODE (Class 0.5)*	*CODE (Class 1)*
5 kN	CC8S825KNI05	CC8S825KNI15
10 kN	CC8S8210KNI05	CC8S8210KNI15
25 kN	CC8S8225KNI05	CC8S8225KNI15
50 kN	CC8S8250KNI05	CC8S8250KNI15
75 kN	CC8S8275KNI05	CC8S8275KNI15
100 kN	CC8S82100KNI05	CC8S82100KNI15
200 kN	CC8S126200KNI05	CC8S126200KNI15
300 kN	CC8S126300KNI05	CC8S126300KNI15
500 kN	CC8S165500KNI05	CC8S165500KNI15
750 kN	CC8S165750KNI05	CC8S165750KNI15
1000 kN	CC8S1651MNI05	CC8S1651MNI15
1500 kN	/	CC8S2001MN5I15
2000 kN	/	CC8S2002MNI15

From 2025 now also capacities in 1kN & 2.5kN Size
Ø82mm x 44mm, class 0.5 & 1.0



NORDIC TRANSDUCER DENMARK ALS ODDE DK9560 HADSUND DENMARK
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Technical Data

*ACCURACY CLASS: **ISO 376***	**0.5** [1]		**1**	
NOMINAL LOAD (E_{max})	5 – 10 – 25 – 50 - 100 - 200 - 300 kN 500 - 750 – 1000 - 1500✧ - 2000✧ kN			
*RELATIVE ERROR (**at reading**)* *a) reproducibility 0°-120°-240° (b)* *b) interpolation (fc)* *c) reversibility (u)* *d) zero (fo)*	 ≤ ±0.090%[2] ≤ ±0.045%[2] ≤ ±0.120%[2] ≤ ±0.020% F.S.		 ≤ ±0.150%[2] ≤ ±0.090%[2] ≤ ±0.200%[2] ≤ ±0.020% F.S.	
LINEARITY *HYSTERESIS*	≤ ±0.03% F.S. ≤ ±0.03% F.S.			
TEMPERATURE EFFECT (10°C) *a) on zero* *b) on sensitivity*	 ≤ ±0.030% F.S. ≤ ±0.020% F.S.			
NOMINAL SENSITIVITY *SENSIVITY TOLERANCE*	2mV/V ≤ ±0.1% F.S.			
INPUT RESISTANCE *OUTPUT RESISTANCE* *INSULATION RESISTANCE* *ZERO BALANCE* *RECOMMENDED SUPPLY VOLTAGE* *NOMINAL SUPPLY VOLTAGE* *MAXIMUM SUPPLY VOLTAGE*	700±2Ω 705±2Ω > 5 GΩ ≤ ± 1% F.S. 10 V 1-15 V 18 V			
MECHANICAL LIMIT VALUES REFERRED TO NOMINAL LOAD : *a) service load* *b) max permissible load* *c) breaking load* *d) max transverse load* *e) max permissible dynamic load*	 120% 150% >300% 50% 75%			
NOMINAL LOAD	5…100kN	200-300kN	500-750-1000 kN	1500-2000 kN
DISPLACEMENT AT NOMINAL LOAD	~ 0.06mm	~ 0.16mm	~ 0.23mm	~0.36mm
REFERENCE TEMPERATURE *TEMPERATURE NOMINAL RANGE* *SERVICE TEMPERATURE* *STORAGE TEMPERATURE*	+23°C -10/+40 °C -10/+70 °C -20/+80 °C			
WEIGHT	2.08 kg	3.42 kg	9.43 kg	~18.2 kg
PROTECTION CLASS (EN 60529) *EXECUTION MATERIAL* *CABLE LENGTH*	IP67 *Stainless Steel* 5m			
FIXING SCREWS *a) diameter* *b) resistance class* *c) tightening torque*	 M8 12.9 80 Nm	 M8 12.9 80 Nm	 M16 12.9 230 Nm	 M16 12.9 230 Nm

[1] *Tests and calibrations performed with the transducer mounted on a bearing support with correctly tightened clamping screws.*

[2] *Percentage errors referred to reading, min. 1/10 of nominal load.*

0.5 class not available for 1500 and 2000kN.

kg calibration on request.
*Classifications according **ASTM E74** on request.*

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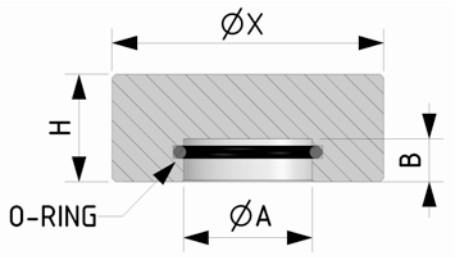
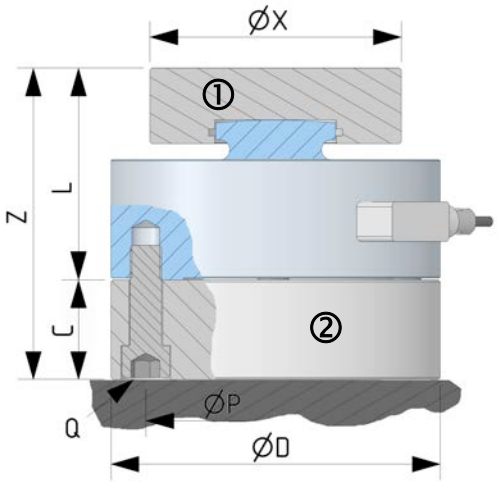
ACCESSORIES [mm]





C8S	CODE		ACCESSORIES	ØX	ØA	B	C	D	L	Z	H	P	Q
5kN to 100 kN	CTIC22	①	Loading head	57	23	9	30	82	59	89	24	68	#3 M8×30
	CPBC8SD82	②	Mounting plate										
200 – 300 kN	CTIC35	①	Loading head	76	36	12	50	126	82	132	30	90	#3 M8×50
	CPBC2SD126	②	Mounting plate										
500 – 750 – 1000 kN	CTIC60	①	Loading head	126	61	12	50	165	106	156	38	130	#4 M16×50
	CPBC2SD165	②	Mounting plate										
1500 – 2000 kN	CTIC80	①	Loading head	128	81	21	50	200	157	207	68	152	#4 M16×50
	CPBC2SD200	②	Mounting plate										

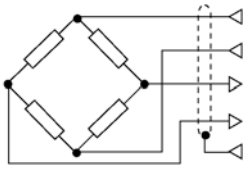
ACCERORIES

	CODE	[3] OPTION
	CMIL6MF	*Direct output connector **MIL6M***
	CMIL6FV5	*Female 6 poles straight **MIL6M** CONNECTOR complete PVC **CABLE**, shielded, length 5 m.*

	CODE	[4] OPTION
	CONNM12MF	*Direct output connector **M12***
	CONNM12FV5	*Female 5 poles straight **M12x1** CONNECTOR complete PVC molded **CABLE**, shielded, length 3 m.*

Electrical Connections

***STANDARD OUTPUT**: PVC 105°C shielded cable, Ø 5.2mm with 4× Ø 0.35mm^2 tinned conductors.*

Force transducer	OUTPUT	CABLE	MIL6M [3] (*optional*)	M12 [4] (*optional*)
	EXCITATION + EXCITATION - OUTPUT + OUTPUT - ----------	*Red* *Black* *White* *Yellow* *Shield*	A B D C F	1 3 2 4 5

Shield connected to the body of the transducer.

Typical configuration

C8S + MP10

C8S + MP6

C8S + DFI

C8S + STAR

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